March 2015

CURRICULUM VITAE

Boaz Golany

Personal Information

Born 1956, Israel

Citizenship: Israeli

Family status: married with three children

Academic Degrees

PhD, The Graduate School of Business, The University of Texas at Austin, Austin, Texas, USA. Supervising Professor: A. Charnes, (August 1985).

BSc (Cum Laude), Faculty of Industrial Engineering and Management, The Technion - Israel Institute of Technology, Haifa, Israel, (June 1982).

Academic Appointments

Faculty of Industrial Eng. & Mgt., The Technion - Israel Institute of Technology

Lecturer: 1986.

Senior Lecturer: 1988.

Associate Professor 1994.

Full Professor 2004

Holder of the Samuel Gorney Chair in Engineering since 2005.

IC^2 Institute, The University of Texas at Austin

Senior Research Fellow since 1994.

Center for Mgt. of Operations and Logistics, The University of Texas at Austin

Senior Fellow 1996-2002.

Professional Experience

Israel Defense Forces, (Armor Corps)

1978 – 2005: Reserve Forces (rank: Lt. Colonel)

1974 – 1978: Active duty

Research Interests

Efficiency & productivity analysis; Production planning & inventory control; Plant layout; Project management; Counter terrorism & homeland security; Multi-criteria decision-making

Teaching Experience

Graduate courses in IE and Systems Engineering

Production Planning & Control, Production & inventory Systems, Advanced Plant Layout, Project Management

Graduate courses in MBA

Introduction to Operations Research, Workshop in Operations Research, Advanced Industrial Seminar, Operations Mgt., Supply Chain Mgt.

Undergraduate courses in IE&M

Production Mgt. I, Production Mgt. II, Logistics, Plant Layout, Seminar in Production & Services Systems, Deterministic Models in Operations Research, Project Mgt.

Technion Activities

2012+: Vice President, External Relations & Resource Development
2006-11: Dean, Faculty of Industrial Engineering & Management
2007-09: Member of the presidential search committee.
2005: Member of the Senate's Appointments, Promotions and Tenure Committee.
2002-05: Member of the Steering Committee, *The Software Technology Lab*, Faculty of Computer Science.
2000-03: A judge in the students' disciplinary court
1998-01: Member, Interdisciplinary Committee for Systems Engineering
1997-98: Member, Core Courses Evaluation Committee.
1994-99: Associate Dean, Faculty of Industrial Engineering & Management
1994-96: Member, Senate Standing Committee for Graduate & Undergraduate Curricula.
1989-90: Treasurer of the Academic Staff Union.

Editorial Duties

2007+: Associate Editor, *Operations Research*
2001+: Editorial Board, area of Production and Inventory planning, *IIE Transactions*, Operations Engineering focus issues.
2003-09: Associate Editor, *OMEGA – The International Journal of Management Science*.
1996-04: Associate Editor, *Journal of Productivity Analysis*.

Public Professional Activities

2008-11: Board member, Rafael – Advanced Defense Systems, Ltd.
2007+: Board member, The International Foundation of Production Research (IFPR)

2003-06: Member of an accreditation committee appointed by the Israeli Council of Higher Education to authorize the granting of B.Sc. degrees in Industrial Engineering and Management by Israeli colleges.

1996-02: Vice President, *The Operations Research Society of Israel*.

1996-98: Chairman, Evaluation Committee of the Industrial Engineering Program at the Ariel College (appointed by the Council for Higher Education).

1990-92: Treasurer, *The Operations Research Society of Israel*.

Membership in Professional Societies

The Operations Research Society of America, ORSA (1983-2000)

The Operations Research Society of Israel, ORSIS (since 1986)

Institute of Industrial Engineers, IIE (since 2002)

Awards and Honors

Certificate of Excellence for Exemplary Service to the Operations Engineering Focus Issues of *IIE Transactions*, May 2003.

The Yosseph Levi Prize for the Best Paper Competition (Highest award of the *Operations Research Society of Israel* – ORSIS), 2003.

Military OR Society (USA): Finalist for the Rist Prize, 1999

Society of Actuaries (USA): Best Paper of the Year Award, 1995-96.

The Technion Academic Excellence Award, 1990-91.

ORSIS representative in the 4th Euro Summer Institute, Turko, Finland, June 1987.

The Allon Fellowship, (Israel Education Ministry) 1986-1989.

The Naor Prize, 1982, National Meeting of ORSIS, Haifa, Israel.

President's Undergraduate Honor List, 1980,1981, 1982, The Technion.

Dean's Undergraduate Honor List, 1979, The Technion.

Patents

1. PCT/US02/08293 Negotiating Platform (with O. Shmueli, R. Sayegh, H. Shachnai, M. Perry, N. Gradovitch and B. Yehezkel), 2002.
2. PCT/US08/ Tour4You (with O. Shmueli), 2008.

Graduate Students

Completed MSc and PhD Theses

1. Yaakov Rosengarten, “Hierarchical Multi-Objective Production Planning at Kulick and Sofa Ltd. (Israel),” MSc 1989.
2. David Rybak, “Applying DEA to the Israeli Electric Corporation,” MSc 1989.
3. Amnon Lev-Er, “Joint Replenishment Inventory Models,” MSc 1990.
4. Opher Tal, “Maximal Synchronization in Planning Bus Schedules,” MSc 1991.
5. Hai Grines, “Advanced Solution Techniques for Plant Layout Problems,” MSc 1991.

6. Uzi Levi “Hierarchical Production Control of Flexible Manufacturing Systems,” MSc 1991.
7. Ronen Elron, “Multi-Echelon Inventory Planning Models,” MSc 1992.
8. Eran Tamir, “Efficiency, Effectiveness and Equity Considerations in DEA,” MSc 1992.
9. Raphi Hasson, “Optimal Allocation of Training Means for Air-Force Squadrons,” MSc 1992.
10. Talia Ben-Yaakov, “Bi-Level Programming Extension of DEA,” MSc 1995.
11. Hernan Altman, “Implementing Gain Sharing Productivity Enhancement Method at a Cable Manufacturer Plant,” MSc 1995.
12. Irit Shachor, “Multi-Tiered Frontiers in DEA,” MSc 1995.
13. Sharon Izakov, “Managing Resource Constrained Multi-Projects,” MSc 1998.
14. Tamir Peleg, “Optimization of SMD Operations,” MSc 1999.
15. Nicole Adler “Identifying Efficient Airlines’ Networks,” PhD 1999 (at Tel-Aviv U.).
16. Saul Bouhnik, “DEA with Thresholds on Facet Participation,” MSc 1999 (co-supervised with Professor U. Passy).
17. Rinat Remler-Grayevski, “Market Valuation of Projected Accounted Information: The Case of Assumed Increase in Compensation Levels, MSc 2001 (co-supervised with A. Ratzkovski).
18. Leonid Brook, “Multi-Mode Resource Constrained Project Scheduling,” MSc 2001.
19. Hussein Naseraldin, “Integrated Planning of Product Design, Assembly Process and Supply Chain,” MSc 2002 (co-supervised with E. Zussman).
20. Pnina Soffer, “An Adaptation and Verification Tools for Implementing Enterprise Resource Planning Methodology,” PhD 2002 (co-supervised with D. Dori).
21. Olga Schneider “Operational Analysis of Multi-Project Systems Managed Through Artificial Agents,” MSc 2003.
22. Ilana Krapovsky, “Relative Evaluation of Infrastructure Projects for Priority Setting,” MSc 2004 (co-supervised with A. Shtub).
23. Alexi Gurevitz, “Developing a 3D Layout for Wafer Fabrication Plants,” MSc 2004.
24. Boaz Fein “Resource Allocation for Inventory and Repair Capabilities of Recoverable Items in Various Logistic Systems,” MSc 2004 (co-supervised with A. Ben Tal).
25. Izak Cohen, “Management of Stochastic, Multi-Projects Environments,” PhD 2004 (co-supervised with A. Shtub).
26. Anat Shpigler, “Evaluating the Economic Effectiveness of Constructing a Network of Local Pick-Up Centers as a Solution to the Last Mile Problem,” MSc 2004.
27. Galit Yom Tov, “Supplier Selection: A Portfolio Management Approach”, MSc 2006.
28. Meirav Rimon, "Robust Methods for Mathematical Programming with Uncertain Constraints: The Case of Portfolio Management," MSc 2006 (co-supervised with A. Ben-Tal).

29. Harel Eilat, “Evaluation, Selection and Control of Projects in a Multi-Project R&D Environment,” PhD (co-supervised with A. Shtub), 2007.
30. Shimrit Shtern, "Robust Multi-Echelon Inventory Control", MSc (co-supervised with A. Ben-Tal), 2008.
31. Inbal Mund, "Allocating Resources to R&D Projects in a Competitive Environment", MSc (co-supervised with U. Rothblum), 2010.
32. Illana Ben David, "Setting release gates for activities in projects with stochastic activity durations", PhD 2010.
33. Michal Rozenblit, "Inventory Replenishment Decisions for Perishable Products: A Robust Optimization Approach", MSc (co-supervised with A. Ben Tal), 2010.
34. Michal Shabtai, "Assessment of Project Success Using Adaptive Project Management Approach", MSc (co-supervised with A. Zonenshain), 2010
35. Yonatan Greenspun "Deliver or Search? Transportation Tactics in the Face of Terrorists Threats", MSc. 2012.
36. Yael Deutsch, "Inspection Games", PhD, (co-supervised with U. Rothblum), 2013.

Theses in Progress

1. Michal Melamed-Rozenblit, "Robust Optimization Methods in Inventory Replenishment Decisions", PhD (co-supervised with A. Ben Tal), Expected graduation in 2014.
2. Ben Levav, "Using Air Impregnable Screens to Reduce the Effect of Hazardous Materials Dispersed in a 3 Dimensional Space", MSc (co-supervised with E. Gopher), Expected graduation in 2014.

ME Projects

1. Alex Dimantov, "Comparative analysis of inventory models for item and system availability of spare parts", 2000.
2. Hadar Amrani, "Developing a substitution model for spare parts and operations in military and civilian aircraft maintenance", 2002.
3. Denis Nudel, "Developing a simulation model for a system of sensors aimed at detecting suspicious persons in crowded places", 2005.
4. Igor Steinberg, "Planning work procedures and product mix for an automatic warehouse in the Medical Corps of the IDF", 2009.
5. Oshrit Doron, "Layout planning for aircraft maintenance hangar at the Sde Dov IAF base", 2010.

Post-Doc Students

1. Noam Goldberg (PhD from Rutgers University), co-supervised with U. Rothblum, 2009-11.
2. Yvgeney Kagan (PhD from Tel Aviv University), co-supervised with U. Rothblum, 2009-10.

Research Grants

1. *Resilient Infrastructure Building Security (RIBS), FP7 project* (FP7-SEC-2009-1- 242497), 2010-2013, with A. Marmur and U.G. Rothblum. Total budget: 455,000 Euro.

2. *The MAGNETON Program, office of the Chief Scientist, The Israeli Ministry of Trade and Industry,* 2008-2010: “Optimal Spatial Scanning Through a system of Mobile Sensors” (a Joint Technion-Elbit project), with K. Kogan and U. Rothblum. Total budget: 550,000 NIS.

3. *Technion-Yale Initiative in Homeland Security and Counterterrorism: New Tools for Decision Making and Policy Analysis***,** 2008-2010 (with E. Kaplan, A. Marmur and U.G. Rothblum), Total Budget: $1,240,000. This fund was established through the generosity of Mr. Daniel Rose, New York, USA.

4. *The Gordon Systems Engineering Research Center at the Technion,* 2008: "Employing Linear Reward Schemes in Distributed Decision Making Systems with Applications to Unmanned Vehicles" (with U. Rothblum), Total budget: $22,000.

5. *The Gensler Institute of Security Science & Technology, at the Technion***,** 2007: "Resource Allocation in The Face of Terrorist Threats," (with U.G. Rothblum), Total budget $20,000.

6. *The Gordon Systems Engineering Research Center at the Technion,* 2005: "A Model for Justifying Investment in Quality Function Deployment (QFD)" (with A. Shtub), Total budget: 70,000 NIS.

7. *The Israeli Electric Corp.,* 2004: "Developing a Decision Support System for Managing Multi-Project Systems" (with A. Shtub). Total budget: 100,000 NIS.

8. *The MAGNETON Program, office of the Chief Scientist, The Israeli Ministry of Trade and Industry,* 2004-2006: “Finding Optimal Flight Paths for a group of Aircraft” (a Joint Technion-Elbit project), with A. Ben Tal, A. Nemirovsky and U. Rothblum. Total budget: 400,000 NIS.

9. *The MAGNET Program, office of the Chief Scientist, The Israeli Ministry of Trade and Industry*, 2004-2007: “Developing models for optimal allocation and operation of devices to detect suspicious objects” with U.G. Rothblum. Total Amount: 480,000 NIS

10. *The MAGNET Program, office of the Chief Scientist, The Israeli Ministry of Trade and Industry*, 2002, 2003: “Developing a Decision Support System to Facilitate the Price Quote Process in a Machining Jobshop Environment" with J. Rubinovitz, D. Sinreich and A. Shtub (Industrial Engineering and Management, Technion). Total Amount: 670,000 NIS

11. *The General Motors Research Foundation*, 2002: “Integrated Planning of Product Design, Assembly Process and Supply Chain” with M. Shpitalni and E. Zussman (Mechanical Engineering, Technion). Total Amount: $5000.

12. *The Israeli Electrical Corp.*, 2000: “Developing Advanced Project Management Control Techniques,” with A. Shtub (Technion). Total Amount: 100,000 NIS

13. *The Israeli Ministry of Industry & Trade, Office of the Chief Scientist, The MAGNET Program*, 1999-2000: “Wafer FAB Cluster Management,” with D. Dori (Technion). Total Amount: 600,000 NIS.

14. *Technion Institute of Management*, 1999: “Development of a Project Control System for High-Tech Projects,” with A. Shtub (Technion). Total Amount: $7,000.

15. *Technion Institute of Management*, 1998: “Management of Parallel R&D Projects.” Total Amount: $7,000.

16. *Planning Division, Defense Ministry, Israel*, 1995: “Evaluating the Relative Efficiency of Army Units,” with M. Kress (Rafael). Total Amount: 80,000 NIS.

17. *National Lottery Fund (Mifaal Hapais), Israel*, 1991-92: “Evaluating the Relative Efficiency of Decision Making Units in the Public Sector,” with Y. Roll (Technion). Total Amount: $5,000.

18. *The S. Neaman Institute for Advanced Studies in Science and Technology, Israel*, 1990: “A Survey on the Penetration of Advanced Production Systems and Factory Automation into the Israeli Industry,” with A. Drori (BGU), N. Finger (BGU), E. Lenz (Technion), K. Preiss (BGU), Y. Robinuvitz (Technion), M. Shoham (Technion) and Z. Bonen (Rafael). Total Amount: 60,000 NIS.

Significant Consulting Projects

In Israel

Plasson: Estimating demand forecasts and developing inventory policies for the European subsidiaries (2008-2009)

Wales Ltd.: Assessing the efficiency of various organizational units in banking and healthcare services (2004-2007)

Dealigence Technologies Ltd.: Developing electronic commerce capabilities (2000-01)

Israel Electric Corp.: International benchmarking of utility companies (2000-01)

Bank Discount: Strategic planning of distribution channels (1998-99, 2004-2006)

Bank Leumi: Improving the efficiency of the bank's branches (1994-97).

Israeli Oil Refineries Ltd.: Inventory control of spare parts (1989-93).

The City of Jerusalem: Quantitative methods in annual budgetary plan (1990).

Haifa Chemical Ltd., Haifa, Israel: Inventory Control (1987-98).

In the US

The Magellan Group, Austin Texas: Productivity and efficiency evaluations in banks, fast food chains, packaged goods and soft drinks manufacturers, State Departments of education and highway maintenance (1986-92).

The US Tactical Air Command: Evaluating the efficiency of tactical wings (1986)

The US Strategic Air Command: Aircraft design modifications model (1986)

The US Training and Doctrine Command: Battle modeling (1988-90)

The US Army Recruiting Command: Efficiency of recruiting units (1984-92).

Publications

PhD Thesis

On Chance Constrained, Competitive and Cooperative Evaluational Methods in Some Problems of Dynamic Management, PhD thesis, The University of Texas at Austin, August 1985.

Refereed Papers in Professional Journals

Published Papers

1. Charnes, A. and B. Golany, "Homocores, Cores and Operational Inefficiency in Super-additive n-Person Games," *International Journal of Systems Science*, Vol. 14, No. 8, pp. 877-893, 1983.
2. Charnes, A., C.T. Clark, W.W. Cooper and B. Golany, "A Developmental Study of Data Envelopment Analysis in Measuring the Efficiency of Maintenance Units in the US Air Force," *Annals of Operations Research*, Vol. 2, pp. 95-112, 1984.
3. Charnes, A., W.W. Cooper, B. Golany, L.M. Seiford and J. Stutz, "Foundations of Data Envelopment Analysis for Pareto-Koopmans Efficient Empirical Production Functions," *Journal of Econometrics*, Vol. 30, pp. 91-107, 1985.
4. Golany, B., M. Kress and F.Y. Phillips, "Estimating Purchase Frequency Distribution with Incomplete Data," *The International Journal of Research in Marketing*, Vol. 3, pp. 169-179, 1986.
5. Barzilai, J., W. Cook and B. Golany, "Consistent Weights for Judgments Matrices of the Relative Importance of Alternatives," *Operations Research Letters*, Vol. 6, No. 3, pp. 131-134, 1987.
6. Golany, B., "A Note on the Inclusion of Ordinal Relations Among Multipliers in DEA," *Management Science*, Vol. 34, No. 8, pp. 1029-1033, 1988.
7. Golany, B., "An Interactive MOLP Procedure for the Extension of DEA to Effectiveness Analysis," *Journal of the Operational Research Society*, Vol. 39, No. 8, pp. 725-734, 1988.
8. Ben-Tal, A., A. Charnes and B. Golany, "On Characteristic Game Solutions Representable as Convex Programs with Essentially Unconstrained Duals," *Optimization*, Vol. 19, No. 1, pp. 71-84, 1988.
9. Charnes, A., W.W. Cooper, B. Golany and J. Masters, "Optimal-Design Modifications by Geometric-Programming and Constrained Stochastic Network Models," *International Journal of Systems Science*, Vol. 19, No. 6, pp. 825-844, 1988.

10. Golany, B. and M.J. Rosenblatt, "A Heuristic Algorithm for the Quadratic Assignment Formulation to the Plant Layout Problem," *International Journal of Production Research*, Vol. 27, No. 2, pp. 293-308, 1989.
11. Golany, B. and Y. Roll, "An Application Procedure for DEA," *OMEGA*, Vol. 17, No. 3, pp. 237-250, 1989.
12. Roll, Y., B. Golany and D. Serroussy, "Measuring the Efficiency of Maintenance Units in The Israeli Air-Force," *European Journal of Operational Research*, Vol. 43, No. 2, pp. 136-142, 1989.
13. Golany, B., D.B. Learner, F.Y. Phillips and J.J. Rousseau, "Managing Service Productivity: The Data Envelopment Perspective," *Computers, Environment and Urban Systems*, Vol. 14, No. 2, pp. 89-102, 1990.
14. Barzilai, J. and B. Golany, "Deriving Weights from Pairwise Comparison Matrices: The Additive Case," *Operations Research Letters*, Vol. 9, No. 6, pp. 407-410, 1990.
15. Golany, B. and F.Y. Phillips, "Maximum Entropy Density Estimation from Data in Histogram Form," *Decision Sciences*, Vol. 21, No. 4, pp. 862-881, 1990.
16. Roll, Y., W. Cook and B. Golany, "Controlling Factor Weights in Data Envelopment Analysis," *IIE Transactions*, Vol. 23, No. 1, pp. 2-9, 1991.
17. Golany, B., O. Learner and M. Yadin, "A Goal Programming Inventory Control Model Applied at a Large Chemical Plant," *Production and Inventory Management Journal*, Vol. 32, No. 1, pp. 16-24, 1991.
18. Bard, J. and B. Golany, "Determining the Number of Kanbans in a Multi-product, Multi-stage Production System," *International Journal of Production Research*, Vol. 29, No. 5, pp. 881-895, 1991.
19. Golany, B., F.Y. Phillips and J.J. Rousseau, "Few-Wave vs. Continuous Consumer Panels: Some Issues of Attrition, Bias and Variance," *International Journal of Research in Marketing*, Vol. 8, pp. 273-280, 1991.
20. Rosenblatt, M.J. and B. Golany, "A Distance Assignment Approach to the Plant Layout Problem," *European Journal of Operational Research*, Vol. 57, No. 2, pp. 253-270, 1992.
21. Golany, B. and A. Lev-Er, "Comparative Analysis of Multi-Item Joint Replenishment Inventory Models," *International Journal of Production Research*, Vol. 30, No. 8, pp. 1791-1801, 1992.
22. Golany, B., R. Mamman and M. Yadin, "An Efficient Algorithm for the Dynamic Economic Lot Size Problem," *Computers & Operations Research* Vol. 19, No. 6, pp. 495-504, 1992.
23. Roll, Y. and B. Golany, "Alternate Methods for Treating Factor Weights in DEA," *OMEGA*, Vol. 21, No. 1, pp. 99-109, 1993.
24. Golany, B., F.Y. Phillips and J.J. Rousseau, "Models for Improved Effectiveness Based on DEA Efficiency Results," *IIE Transactions*, Vol. 25, No. 6, pp. 2-10, 1993.

25. Golany, B. and Y. Roll, "Some Extensions of Techniques to Handle Non-Discretionary Factors in Data Envelopment Analysis," *Journal of Productivity Analysis*, Vol. 4, No. 4, pp. 419-432, 1993.
26. Golany, B. and M. Kress, "A Multi-Criteria Evaluation of Methods for Obtaining Weights from Ratio-Scale Matrices," *European Journal of Operational Research*, Vol. 69, No. 2, pp. 210-220, 1993.
27. Barzilai, J. and B. Golany, "AHP Rank Reversal, Normalization and Aggregation Rules," *Information Systems and Operational Research*, Vol. 32, No. 2, pp. 14-20, 1994.
28. Golany, B., Y. Roll and D. Rybak, "Measuring Efficiency of Power Plants in the Israeli Electric Corporation by Data Envelopment Analysis," *IEEE Transactions of Engineering Management*, Vol. 41, No. 3, pp. 1-14, 1994.
29. Kress, M. and B. Golany, "Optimizing the Assignment of Air Crews to Aircraft in an Airlift Operation," *European Journal of Operational Research*, Vol. 77, pp. 475-485, 1994.
30. Golany, B. and G. Yu, "A Goal Programming - Discriminant Function Approach to the Estimation of an Empirical Production Function Based on DEA Results," *Journal of Productivity Analysis*, Vol. 6, No. 2, pp. 171-186, 1995.
31. Golany, B., F.Y. Phillips and J.J. Rousseau, "Optimal Design of Syndicated Panels: A Goal Programming Approach," *European Journal of Operational Research*, Vol. 87, No. 1, pp. 148-165, 1995.
32. Golany, B. and E. Tamir, "Evaluation Efficiency-Effectiveness-Equality Trade-offs: A Data Envelopment Analysis Approach," *Management Science*, Vol. 41, No. 7, 1172-1184, 1995.
33. Brockett, P.L. and B. Golany, "Using Rank Statistics for Determining Programmatic Efficiency Differences in Data Envelopment Analysis," *Management Science*, Vol. 42, No. 3, 466-472, 1996.
34. Brockett, P.L., R. C. Witt, B. Golany, N. Sipra and X. Xia, "Statistical Tests of Stochastic Process Models Used in Financial Theory of Insurance Companies," *Insurance: Mathematics and Economics*, Vol. 18, 73-79, 1996.
35. Brockett, P.L., S.H. Cox, B. Golany, F.Y. Phillips and Y. Song, "Actuarial Usage of Grouped Data: An Approach to Incorporating Secondary Data," *Transactions of the Society of Actuaries*, Vol. XLVII, 75-100, 1996. This paper won the *Society of Actuaries Annual Prize* for papers published in the *TSA* during July 1995 to July 1996.
36. Golany, B. and S. Thore, "The Economic and Social Performance of Nations: Efficiency and Returns to Scale," *Journal of Socio-Economic Planning Sciences*, Vol. 31, No. 3, 191-204, 1997.
37. Golany, B. and G. Yu, "Estimating Returns to Scale in DEA," *European Journal of Operational Research*, Vol. 103, No. 1, 11-20, 1997.

38. Golany, B. and S. Thore, "Restricted Best Practice Selection in DEA: An Overview with a Case Study Evaluating the Socio-Economic Performance of Nations," *Annals of Operations Research*, Vol. 73, 117-140, 1997.
39. Brockett, P.L., B. Golany, J.J. Rousseau, D.A. Thomas and L. Zhou, "Forecasting and Allocation of US Army Recruiting Resources," *Military Operations Research*, Vol. 3, No. 3, 13-29, 1997. This paper was a Semi-finalist in *Franz Edelman Competition* for the most outstanding application of management science techniques in practice, by the *Institute for Operations Research and the Management Sciences* (INFORMS) in 1995, and also a Finalist for the *David Rist Prize* for the most outstanding paper on military operations research awarded by the *Military Operations Society*, 1999
40. Brockett, P.L., B. Golany and S. Li, "Analysis of Intertemporal Efficiency Trends Using Rank Statistics With an Application Evaluating the Macro Economic Performance of OECD Nations," *Journal of Productivity Analysis*, Vol. 11, No. 2, 169-182, 1999.
41. Golany, B. and J. Storbeck, "A Data Envelopment Analysis of the Operational Efficiency of Bank Branches," *Interfaces*, Vol. 29, No. 3, 14-26, 1999.
42. Golany, B., E.M. Dar-El, and N. Zeev, "Controlling Shop Floor Operations in a Multi-Family Manufacturing Environment through Constant Work-In-Process," *IIE Transactions*, Vol. 31, No. 8, 771-781, 1999.
43. Gerchak, Y. and B. Golany, "Hiring Policies in an Uncertain Environment: Cost and Productivity Tradeoffs," *European Journal of Operational Research*, Vol. 125, No. 1, 195-204, 2000.
44. Adler, N. and B. Golany, "Evaluation of Deregulated Airline Networks Using Data Envelopment Analysis Combined with Principal Component Analysis with an Application to Western Europe," *European Journal of Operational Research*, Vol. 132, No. 2, 260-273, 2001.
45. Golany, B., J. Yang and G. Yu, "Economic Lot-Sizing with Remanufacturing Options," *IIE Transactions*, Vol. 33, No. 11, 995-1003, 2001.
46. Bouhnik, S., Golany B., S. Hackman, U. Passy and D. Vlatsa, "Lower Bound Restrictions on Intensities in Data Envelopment Analysis," *Journal of Productivity Analysis*, Vol. 16, No. 3, 241-261, 2001.
47. Ceder, A., B. Golany and O. Tal, "Creating Bus Timetable with Maximal Synchronization," *Transportation Research*, Vol. 35A, No. 10, pp. 913-928, 2001.
48. Soffer, P., B. Golany, D. Dori and Y. Wand, "Modeling Off-the-Shelf Information Systems Requirements: An Ontological Approach," *Requirements Engineering*, Vol. 6, pp. 183-199, 2001.

49. Adler, N. and B. Golany, "Including Principal Component Weights to improve discrimination in Data Envelopment Analysis," *Journal of the Operational Research Society*, Vol. 53, No. 9, pp. 985-991, 2002.
50. Golany, B., J. Yang, Y. Xia and G. Yu, "An Interactive Goal Programming Procedure for Operational Recovery Problems," *Optimization and Engineering*, Vol. 3, No. 2, pp. 109-127, 2002.
51. Anavi-Izakov, S. and B. Golany, "Managing Multi-Project Environments through Constant Work-in-Process," *International Journal of Project Management*, Vol. 21, No. 1, pp. 9-18, 2003.
52. Soffer, P., B. Golany and D. Dori, "Comprehensive ERP Modeling: Language Selection and Model Constructing Process," *Journal of Information Systems*, Vol. 28, No. 6, pp. 673-690, 2003.
53. Xia, Y., S.M. Gilbert, B. Golany, M.H. Yang and G. Yu, "Real Time Disruption Management In a Two-Stage Production and Inventory System," *IIE Transactions*, Vol. 36, No. 2, pp. 111-126, 2004. This article was highlighted in the *Research Summaries* section of the *Industrial Engineer Magazine*, pp. 148-149, Feb. 2004.
54. Cohen, I., B. Golany and A. Shtub, "Managing Stochastic Finite Capacity Multi-Project Systems through the Cross Entropy Methodology," *Annals of Operations Research*, Vol. 134, pp. 183-199, 2005.
55. Fine, C.H., B. Golany and H. Naseraldin, "Modeling Tradeoffs in Concurrent Product, Process and Supply Chain Design." *Journal of Operations Management*, Vol. 23, pp. 389-403, 2005.
56. Cook, W., B. Golany, M. Kress, M. Penn and T. Raviv, "Optimal Allocation of Proposals to Reviewers to Facilitate Effective Ranking," *Management Science*, Vol. 51, No. 4, pp. 655-661, 2005.
57. Yang, J., B. Golany and G. Yu, "A Concave-Cost Economic Lot-sizing Problem with Remanufacturing Options," *Naval Research Logistics*, Vol. 52, No. 5, pp. 443-458, 2005.
58. Dori, D., B. Golany and P. Soffer, "Aligning an ERP System with Enterprise Requirements: An Object-Process Based Approach." *Computers in Industry*, Vol. 56, No. 6, pp. 639-662, 2005.
59. Ben-Tal, A., B. Golany, A. Nemirovski and J.P. Vial, "Supplier-Retailer Flexible Commitment Contracts: A Robust Optimization Approach," *Manufacturing & Service Operations Management*, Vol. 7, No. 3, pp.248-271, 2005.
60. Golany, B. and U.G. Rothblum, "Inducing Coordination in Supply Chains through Linear Reward Schemes," *Naval Research Logistics*, Vol. 53, No. 1, pp. 1-15, 2006.
61. Eilat, H., B. Golany and A. Shtub, "A Methodology for Constructing and Evaluating Portfolios of R&D Projects," *European Journal of Operational Research*, Vol. 172, No. 3, 1018-1039, 2006.

62. Cook, W., B. Golany, M. Penn and T. Raviv, “Creating a Consensus Ranking of Proposals from Reviewers' Partial Ordinal Rankings,” *Computers & Operations Research*, Vol. 34, No. 4, 2006.
63. Golany B., S. Hackman and U. Passy, “An Efficiency Measurement Framework for Multi-Stage Production Systems,” *Annals of Operations Research*, Vol. 145, No. 1, pp. 51-68, 2006.
64. Golany, B., A. Gurevich, E. Puzailov, "Developing a 3-D Layout for Wafer Fabrication Plants," *Production Planning and Control*, Vol. 17, No. 7, pp. 664-677, 2006.
65. Avi-Itzhak, B., B. Golany and U.G. Rothblum, "Strategic Equilibrium Vs. Global Optimum for a Pair of Competing Servers," *Journal of Applied Probability*, Vol. 43, pp. 1165-1172, 2006.
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85. Goldberg, N., B. Golany and U.G. Rothblum, "Allocating Multiple Defensive Resources in a Zero-Sum Game Setting", *Annals of Operations Research*, Vol. 225, pp. 91-109, 2015.

Accepted (or in Press) Papers

86. Golany, B. and Y. Deutsch, "Multiple Agents Finitely Repeated Inspection Game with Dismissals", *Annals of Operations Research*, accepted in July 2014.

Book Reviews in Refereed Journals

87. Golany, B., “Practical Bi-level Optimization: Algorithms and Applications,” (J.F. Bard, Kluwer Academic Publishers, 1998), *IIE Transactions*, Vol. 31, No. 9, 921-922, 1999.

Articles in Refereed Conferences

88. Golany, B. and O. Shmueli, "Catalog-Based Purchasing: Illustrating a Quantitative Approach to Electronic Commerce," *IEEE Conference on E-Commerce Technology*, Munich, Germany July 19-22, 2005.

Submitted Papers

1. Golany, B., N. Goldberg and U.G. Rothblum, "A Two-Resource Allocation Algorithm with an Application to Large-Scale Zero-Sum Defensive Games".
2. Melamed, M., A. Ben Tal and B. Golany, "On the price of non-robustness – the case of multi-period production planning under uncertainty".

Books

Mathematical Programming for Industrial Engineers, eds. M. Avriel and B. Golany, Marcel-Dekker Inc., (637 pages), 1996.

The book was reviewed by:

1. Smith, D.K., *Journal of The Operational Research Society*, Vol. 48, No. 3, p. 334, 1997.
2. Jansen, B., *European Journal of Operational Research*, Vol. 97, No. 3, p. 610, 1997.

Publications in Books

1. Charnes, A., W.W. Cooper, B. Golany, V. Lovegren, W.T. Mayfield and M. Wolfe, “A Goal Programming System for the Management of the U.S. Navy Sea-Shore Rotation Program,” in *Human Resource Policy Analysis, Organizational Applications*, ed. R.J. Niehaus, pp. 145-172, Praeger, 1985.
2. Charnes, A., W.W. Cooper, M. Dieck-Assad, B. Golany and D. Wiggins, “Efficiency Analysis of Uses of Medical Care Resources in the U.S. Army Health Services Command,” *Frontiers of Medical Information Sciences*, ed. R. L. Kuhn, pp. 101-120, Praeger, 1988.
3. Charnes, A., B. Golany, M. Keane and J. Rousseau, “Extremal Principle Solutions of Games in Characteristic Function Form: Core, Chebychev and Shapley Value Generalizations,” in *Econometrics of Planning and Efficiency*, ed. J.K. Sengupta and G.K. Kodekodi, pp. 123-132, Kluwer Academic Publisher, 1988.
4. Charnes, A., W.W. Cooper, B. Golany, L.M. Seiford, J. Stutz, “Foundations of Data Envelopment Analysis for Pareto-Koopmans Efficient Empirical Production Functions,” in *New Approaches to Modeling, Specification Selection and Econometric Inference*, International Symposia in Economic Theory and Econometrics, edited by W.A. Barnett and A.R. Gallant, pp. 91-107, Cambridge University Press, 1990.

5. Golany, B., D.B. Learner, F.Y. Phillips and J.J. Rousseau, “Efficiency and Effectiveness in Marketing Management,” in *Asian-Pacific Operations Research APORS '88*, Ed. B.H. Ahn, North-Holland, 1990, pp. 495-508.
6. Golany, B. and J.J. Rousseau, “Efficiency Evaluation Games,” in *Systems and Management Sciences by Extremal Methods*, edited by F.Y. Phillips and J.J. Rousseau, pp. 327-347, Kluwer Academic Publishers, 1992.
7. Barzilai, J., W. Cook and B. Golany, “The Analytic Hierarchy Process: Structure of the Problem and Its Solutions,” in *Systems and Management Sciences by Extremal Methods*, edited by F.Y. Phillips and J.J. Rousseau, pp. 361-372, Kluwer Academic Publishers, 1992.
8. Duffuaa, S. and B. Golany, “Homomonotone Games and Monocore Solutions,” in *Systems and Management Sciences by Extremal Methods*, edited by F.Y. Phillips and J.J. Rousseau, pp. 311-325, Kluwer Academic Publishers, 1992.
9. Charnes, A., W.W. Cooper, B. Golany, F. Y. Phillips and J. Rousseau, “A Data Envelopment Analysis of High-Turnover Consumer Products in Competitive Markets,” in *Data Envelopment Analysis: Theory, Methodology and Applications*, edited by A. Charnes, W.W. Cooper, A.Y. Lewin and L.M. Seiford, Kluwer Academic Publishers, pp. 145-166, 1995.
10. Golany, B. and Y. Roll, “Incorporating Standards in DEA,” in *Data Envelopment Analysis: Theory, Methodology and Applications*, edited by A. Charnes, W.W. Cooper, A.Y. Lewin and L.M. Seiford, Kluwer Academic Publishers, pp. 313-328, 1995.
11. Golany, B. and S. Thore, “On the Competitiveness of Nations,” in *IMPACT: How IC^2 Research Affects Public Policy and Business Practices*, edited by W.W. Cooper, S. Thore, D. Gibson and F. Phillips, Quorum Books, pp. 189-208, 1997.
12. Golany, B. and A. Shtub, “Work Breakdown Structure”, in *Industrial Engineering Handbook*, edited by G. Salvendi, Wiley, Chapter 47, pp. 1263-1280, 2001.
13. Golany, B. and S. Thore, “On the Ranking of R&D Projects in a Hierarchical Organizational Structure Subject to Global Resource Constraints,” in *Technology Commercialization: DEA and Related Analytical Methods for Evaluating the Use and Implementation of Technical Innovation*, edited by S. Thore, Kluwer Academic Publishers, pp. 253-274, 2002.
14. Adler, N. and B. Golany, "Data Reduction through Principal Component Analysis (DEA-PCA)". Cook W. and Zhu J. (eds): *Modeling Data*

Irregularities and Structural Complexities in Data Envelopment Analysis, Springer: New York, pp. 139-154, 2007.

15. De-Haan and B. Golany, "The Land of Milk, Honey and Ideas: What Makes Israel a Hotbed for Entrepreneurship & Innovation?" in *Global Perspectives on Technology Transfer*, edited by D. Gibson. 2009.
16. Golany, B., Konstantin Kogan and Charles Tapiero, "Dynamic Coordination of Multiple Agents in a Class of Differential Games Through a Generalized Linear Reward Scheme" in *Models and Methods in Economics and Management Science*, edited by Fouad El Ouardighi and Konstantin Kogan, International Series in Operations Research & Management Science, Vol. 198, Springer: New York, 2014.
17. Golany B., Hackman S. and Passy U., "An efficiency measurement framework for multi-stage production systems", in *Data Envelopment Analysis, International Series in ORMS*, Chapter 13, Springer: New York, 2014.

Conferences and Seminars

Invited Plenary and Semi-Plenary Talks in International Conferences

- *MEDCAMPUS*, Nicosia, Cyprus, April 1996, "DEA Applied to a Large Commercial Bank."
- *EURO 20th Working Group on Financial Modeling*, Dubrovnik, Croatia, April 1997, "DEA Applications in Commercial Banks."
- *The fourth International Conference on Electronic Commerce Research (ICECR-4)*, Dallas, Texas, November 2001 "Negotiated Transaction System and Advance Commerce Technologies."
- EUMOptFin: Workshops Series on Mathematical Optimization Models for Financial Institutions, University of Bergamo, Italy, May 2004. "Efficiency studies in banking: past, present and future".
- 5th Annual Meir Rosenblatt Memorial Lecture, Olin School of Business, Washington University, St. Louis, MO, USA, Sep. 2007. "New advances in R&D Management"
- Global Perspectives on Technology Transfer and Commercialization, IC2 Institute, Austin, Texas, USA, May 2009. "What Makes Israel A Hotbed For Entrepreneurship And Innovation?"

Invited Talks in International Conferences

- *EURO 4th Summer Institute*, Turko, Finland, June 1987, "An Interactive MOLP Procedure for the Extension of DEA to Effectiveness Analysis."

- *A Conference in Honor of A. Charnes' 70th Birthday*, The University of Texas at Austin, October 1987. "Efficiency Evaluation Games."
- *Joint EURO 12th and TIMS 31st*, Helsinki, Finland June 1992, "Treating Weights in Data Envelopment Analysis."
- *TIMS 32nd*, Anchorage, Alaska, June 1994, "Estimating Returns to Scale in DEA".
- *ICPR 13th*, Jerusalem, Israel, Aug. 1995, "Recent Advances in DEA".
- *Decision Science Institute*, Athens, Greece, July 1999, "DEA with Lower Bounds on Weights' Intensities."
- *7th International Workshop on Project Management and Scheduling*, Osnabruck, Germany, April 2000, "A Comparative Analysis Based Control in Multi-Project Environment."
- *EURO 18th*, Rotterdam, The Netherlands, July 2001, "Management of Multiple R&D Projects."
- *7th European Workshop on Efficiency and Productivity*, Oviedo Spain, Sep. 2001, "Multi-Stage Efficiency Analysis."
- *EURO/INFORMS Joint meeting*, Istanbul, Turkey, July 2003, "Managing Portfolios of R&D Projects."
- *MSOM conference*, Eindhoven, The Netherlands, July 2004, Inducing Coordination in Supply Chains Through Linear Reward Schemes."
- EURO 22nd, Prague, July 2007. "A DEA-BSC Method for Constructing and Managing a Portfolio of R&D Projects".
- *IFORS 2008*, Sandton, South Africa, July 2008. "Allocating Resources to R&D Projects in Competitive Environments."
- *INFORMS 2008,* Washington DC, Oct. 2008. "Dynamic coordination between two asymmetric agents moving along a route."
- *EURO 23rd*, Bonn, Germany, July 2009. "Resource allocation in development projects that yield temporary advantage."
- *WITOR 2009, Istanbul Turkey, Sep. 2009*. "Resource allocation in development projects that yield temporary advantage."
- *EURO 24th*, Lisbon, Portugal, July 2010. "A stochastic competitive R&D race where winner-takes-all."
- *INFORMS 2010,* Austin, Texas, Nov. 2010. "A stochastic competitive R&D race where winner-takes-all."
- *IFORS 2011*, Melbourne, Australia, July 2011. "Network optimization models for resource allocation in developing military counter measures."

Invited Talks in Universities

- *Sloan School of Business, Massachusetts Institute of Technology,* August 2002.
- Center for Decision Making Under Uncertainty, *Chinese Academy of Sciences*, Beijing, China, Oct. 2002.
- *Olin School of Business, Washington University*, St. Louis, Missouri, USA, Sep. 2007
- *School of Management, Yale University,* New Haven, CT, USA, Oct. 2008.
- *IC^2 Institute, The University of Texas at Austin,* Austin, TX, USA, May 2009.

Contributed Talks International Conferences

- *ORSA/TIMS*, Orlando, November 1983, "Homocores, Cores and Operational Inefficiency in Superadditive n-Person Games."
- *ORSA/TIMS*, San Francisco, May 1984, "Homomonotone and Monocore Solutions of n-Person Games."
- *ORSA/TIMS*, Atlanta, November 1985, "Efficiency Analysis of Response under Competition."
- *ICPR 11th*, Hefei, China, Aug. 1991, "Determining the Optimal number of Kanbans in a Multi Product, Multi Period Production System."
- *ORSA/TIMS*, Chicago, May 1993, "Equity, Efficiency and Effectiveness Trade-offs in DEA."
- *INFORMS,* Singapore, June 1995, "A Goal Programming - Discriminant Function Approach to the Estimation of Empirical Production Functions Based on DEA."
- *INFORMS/EURO*, Barcelona, Spain, July 1997, "Directional Returns to Scale in DEA."
- *EURO 17th*, Budapest, Hungary, July 2000, "Multi-Stage Efficiency in DEA."
- *IFORS 2002*, Edinburgh, UK, July 2002. "Including Principal Component Weights to Improve Discrimination in Data Envelopment Analysis."
- *MSOM conference*, Eindhoven July 2004, "Inducing Coordination in Supply Chains through Linear Reward Schemes".
- EWEPA-9, Brussels, Belgium, June 2005, "A Methodology for Constructing and Evaluating Portfolios of R&D Projects"
- *ICPR 18th, Salerno Italy, July 2005, "*Resource Allocation for Spares and Repair Capacities of Repairable Items in Logistic Systems".
- *ILS 2006, Lyon, France, May 2006*, "Coordination vs. Individual Utilities in Supply Chain Management."

- *EURO XXII 2006, Reikjavik Iceland, June 2006,* "Linear reward schemes in supply chain management."
- *EURO XXIII, 2007, Prague, Czech Republic, July 2007,* "Setting gates for activities in the stochastic project scheduling problem through the Cross Entropy methodology"
- *ICPR 19th, Valaprisio Chile, August 2007, "*Setting gates for activities in the stochastic project scheduling problem through the Cross Entropy methodology".
- *ICPR 20th, Shanghai, China, August 2009,* "Predetermined intervals for start times of activities in the stochastic project scheduling problem."
- *ICPR 21th, Stuttgart, Germany, August 2011,* "Robust optimization of multi-period production planning under uncertainty."
- *ICPR 22th, Iguassu Falls, Argentina, August 2013,* "Resource allocation in a technology race with temporary advantages."
- *EURO 26th*, Rome, Italy, July 2013. "Resource allocation in R&D races with temporary advantage."
- *EURO 28th*, Glazgo, UK, July 2015. "Inspection games."
- *ICPR 23th, Manila, Philippines, August 2015,* "Multi-period production under uncertainty"

Papers in Conference Proceedings

1. Duffuaa, S., B. Golany, "Homomonotone and Monocore Solutions of n-Person Games," *Proceedings of a Conference in Honor of A. Charnes' 70th Birthday*, The University of Texas at Austin, October 1987.
2. Golany, B., M.J. Rosenblatt, "Recent Advances in Facility Layout Problems," *The 5th Israeli Conference of Industrial Engineering & Management*, Beer-Sheva, Israel, May 1988.
3. Golany, B., Y. Roll, "Incorporating Standards in DEA," *Conference on New Uses of DEA in Management*, September 1989, The IC^2 Institute, The University of Texas in Austin.
4. Golany, B., A. Lev-Er, "Analysis and Extensions of Multi-Item, Joint Replenishment Inventory Models," *The 6th Israeli Conference of Industrial Engineering & Management*, Hertzelia, Israel, April 1990.
5. Golany, B., U. Levi, "A Hierarchical Production and Inventory Model for Flexible Manufacturing Systems," *The 6th Israeli Conference of Industrial Engineering & Management*, Hertzelia, Israel, April 1990.
6. Barzilai, J., B. Golany, "An Axiomatic Framework for Aggregating Weights and Weight-Ratio Matrices," *Proceedings of the 2nd International Symposium on the AHP*, Pittsburgh, PA, 1991, pp. 59-70.

7. Golany, B., R. Elron, "A Comparative Analysis of Inventory Control Models for a Two Echelon, Multi-item Inventory System," *The 7th Israeli Conference of Industrial Engineering & Management*, Haifa, Israel, April 1992.

Participation in organizing conferences

The 7th Israeli Conference on Industrial Engineering and Management, Haifa, Israel, April 1992: Chairman of the organizing committee.

The 11th International Conference on Production Research, Jerusalem, Israel, August 1995: Member of the organizing committee.

The 1998 INFORMS/ORSIS Joint International Meeting, Tel-Aviv, Israel, June 1998: Member of the organizing committee.

The 2nd Israeli Conference on Project Management, Tel Aviv, Israel, May 1998: Member of the organizing committee.

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